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PUB-NO: JP02000076017A
DOCUMENT-IDENTIFIER: JP 2000076017 A
TITLE: MAGNETIC DISK CONTROLLER

PUBN-DATE: March 14, 2000

INVENTOR-INFORMATION:
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KUWATA, ATSUSHI

ASSIGNEE-INFORMATION:
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APPL-NO: JP10245691
APPL-DATE: August 31, 1998

INT-CL (IPC): G06 F 3/06; G06 F 12/08; G11 B 20/10

ABSTRACT:

PROBLEM TO BE SOLVED: To detect a near sequential I/O and to perform the lookahead of data from a magnetic disk drive to a cache memory.

SOLUTION: A near sequential I/O processing part 23 is provided with an I/O history storage table 235 storing the transfer end address of I/O requested from a host 10 in the past, a near sequential I/O judging part 233 for calculating an address difference between the transfer end address read out of this I/O history storage table 235 and the transfer start address of this I/O transfer and judging the request of this I/O as a near sequential I/O when the address difference is settled within a fixed range, and a lookahead executing part 234 for performing the lookahead of data from a magnetic disk drive 40 to a cache memory 30 on the condition of detecting the near sequential I/O.